**PROJECT SYNOPSIS**

**on**

**HotelHub**

***Submitted By:***

**Shiva Raman (2121678)**

**Raju Choudhary (2121676)**

IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE

AWARD OF THE DEGREE OF

**BACHELOR OF TECHNOLOGY**

(Computer Science and Engineering)



Department of Computer Science and Engineering

CGC College of Engineering

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**IDEA:**

A hotel management system is a software application that helps hotel owners and managers streamline their operations and manage various aspects of their business. The main idea behind a hotel management system is to improve efficiency, reduce errors, and enhance guest satisfaction.

The system typically includes features for managing reservations, room assignments, check-in and check-out processes, billing and payment, inventory management, housekeeping and maintenance, and reporting and analytics. Some hotel management systems may also include features such as marketing and customer relationship management (CRM) tools, loyalty programs, and online booking engines.

By implementing a hotel management system, hotel owners and managers can save time and reduce the likelihood of errors, which can lead to increased guest satisfaction and improved revenue. The system can also help streamline communication between different departments within the hotel, such as housekeeping, front desk, and maintenance, allowing for more efficient and effective operations.

### **PROBLEM STATEMENT**

The old manual system was suffering from a series of drawback. Since whole of the system was to be maintained with hands the process of keeping, maintaining and retrieving the information was very tedious and lengthy. The records were never used to be a systematic order there used to be lots of difficulties in associating any particular transaction with a particular context. If any information was to be found it was required to go through the different registers, documents there would never exit anything like report generation. There would always be unnecessary consumption of time while entering records and retrieving records. Once the records were entered it was very difficult to update these records.

### **PROJECT FEATURES :**

Hotel management systems come with a variety of features and functionalities, depending on the specific needs and requirements of the hotel. Some of the key features of a typical hotel management system include:

1. **Reservation Management**: This feature allows hotel staff to manage and track reservations, including room availability, guest details, and booking dates.
2. **Front Desk Management**: This feature enables hotel staff to manage the check-in and check-out process, assign rooms to guests, and handle guest requests and complaints.
3. **Housekeeping Management**: This feature allows hotel staff to manage housekeeping tasks, such as cleaning schedules, room inspections, and maintenance requests.
4. **Point of Sale (POS) Management**: This feature enables hotel staff to manage sales and billing processes, including room charges, restaurant and bar bills, and other miscellaneous charges.
5. **Inventory Management**: This feature enables hotel staff to manage inventory levels, track usage, and reorder supplies when necessary.
6. **Reporting and Analytics**: This feature provides insights into hotel operations and guest behavior, allowing hotel owners and managers to make informed decisions about their business.
7. **Online Booking Engine**: This feature allows guests to book rooms online, view room availability, and make payments.
8. **Customer Relationship Management (CRM):** This feature enables hotel staff to manage customer information, preferences, and history, allowing for personalized service and targeted marketing campaigns.

**Hardware Requirements:**

* Processor : Intel Core i5 or higher
* RAM : 8 GB or more
* Storage : 256 GB SSD or higher
* Display : 1080p resolution or higher

**Software Requirements:**

* Operating System : Windows 10, MacOS, or Linux
* Development Tools : Java Swing, Java AWT
* Backend : Mysql

**Work Scheduled for the Coming Weeks:**

1. Complete the development of the marketplace feature for buying and selling used books and other necessary items - Scheduled to be completed by May 1, 2023.
2. Implement user authentication and authorization for secure access to the web application - Scheduled to be completed by May 15, 2023.
3. Implement a review and rating system for PG accommodations and other services - Scheduled to be completed by May 1, 2023.
4. Perform thorough testing and debugging of the web application - Scheduled to be completed by May 15, 2023.
5. Prepare for the final presentation and documentation of the project - Scheduled to be completed by June 1, 2023.